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REVIEWS.

The Non-Metallic Minerals. By G. P. MERRILL, New York: JOHN WILEY & SONS, 1904.

THE non-metallic minerals, exclusive of gems, building-stones, and marbles, are treated in groups as elements, sulphides, oxides, etc. The nature and composition, the geological and geographical occurrence, the theories of the origin, and the uses of each mineral are presented, and in the case of the more important minerals commercially a brief description is given of the methods of mining and the preparation for the market. A valuable feature of the book to those who are making a study of special minerals is a bibliography giving complete references to articles and books on the various subjects. The occurrence of minerals, their forms of crystallization, and many other features are illustrated by numerous half-tones, diagrams, and geological sections. The author has rendered a most important service to all who are in any way interested in the non-metallic minerals by bringing together in a most concise manner much valuable information which until now was so widely scattered that it could be obtained only with great difficulty.

G. F. K.

Geology of Miller County. By SYDNEY H. BALL AND A. F. SMITH. With an Introduction by E. R. BUCKLEY. Vol. I, Second Series. Jefferson City, Mo.: Missouri Bureau of Geology and Mines. 1903.

THIS is a report of 207 pages with 18 plates and sufficient figures to afford ample illustrations. Two maps accompany the report, the first one a geological map purely, and the second one an economic map showing locations of mines, quarries, clay-banks, etc. Many of the figures consist of detailed columnar sections of the different formations.

Miller county is located in the midst of the Ozark plateau, and the succession of formations is typical for most of the plateau region. The formations occurring in the county are the Proctor limestone, probably of Cambrian age; the Gunter sandstone, Gasconade limestone, Bolin Creek sandstone, St. Elizabeth formation, Jefferson City formation, and Pacific sandstone, of undifferentiated Cambro-Ordovician age; the undiffer-